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| 13/15/ | | N DICC | COLDE | Application Number | 10/771.087 | | | |
| INFORMATION DISCLOSURE | | | | Filing Date | February 3, 2004 | | | |
| STATEMENT BY APPLICANT | | | ICANT | First Named Inventor | Frederick B. Growcock | | | |
| | | | | Group Art Unit | 1712 | | | |
| (use as many sheets as necessary) | | | | Examiner Name | Not Yet Known | | | |
| Sheet | 1 | of | 1 | Attorney Docket Number | 2223-04501 | | | |

| | | | U.S. PATENT I | DOCUMENTS | |
|-----------------------|--------------|---|--------------------------------|---|---|
| Examiner Initials* | Cite No.1 | Document Number Number-Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| PC | AA | US-6,716,797 | 04/06/2004 | Brookey | |
| 1 | AB | US-6,739,414 | 05/25/2004 | Brookey et al. | |
| | AC | US-6,770,601 | 08/03/2004 | Brookey | |
| | AD | US-2003/0215946 A1 | 11/20/2003 | Nair et al. | |
| P | AE | US-2001/0027880 | 10/11/2001 | Brookey | |

| <u> </u> | FOREIGN PATENT DOCUMENTS | | | | | | | | | |
|-----------------------|--------------------------|---|-----------------------------|--|--|----------|--|--|--|--|
| Examiner Injtials* | Cite | Foreign Patent Document | | | | Té | | | | |
| | No.¹ | Country Code ³ Number ⁴ Kind Code ⁵ (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where RelevantPassages or Relevant Figures Appear | | | | | |
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| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | | | | | | | | |
|---|--------------|---|---|--|--|--|--|--|
| Examiner Initials* | Cite No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T | | | | | |
| RT | AE | PCT International Search Report to Application # 60/444,508, PCT/US04/02960 filed February 3, 2004. | | | | | | |
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| Date Considered | 6/05 |
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Serial No. Atty. Docket No. Form PTO-1449 (Modified) Form PTO-1449 (Modified)
SUPPLEMENTAL
INFORMATION DISCLOSURE STATE 10/771,087 2223-04501 **BY APPLICANT** Applicant Fredrick B. Growcock (Use several sheets if necessary) Filing Date Group 1712 2/3/04 REFERENCE DESIGNATION U.S. PATENT DOCUMENTS CLASS SUB-FILING DATE IF DATE NAME **EXAMINER DOCUMENT** APPROPRIATE **CLASS** INITIAL NUMBER 507 102 U.S. 6,649,571 AA 11/2003 Morgan FOREIGN PATENT DOCUMENTS DOCUMENT: DATE COUNTRY **CLASS** SUB-Translation **CLASS** NUMBER YES OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) ΑB PCT International Search Report to Application # 60/444,537, PCT/US04/02947 filed February 3, 2004. P. TUCKER **EXAMINER** DATE CONSIDERED

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conformance and not considered. Include copy of this form with next communication to the applicant.

| Form PTO-1449 (Modified) | | | | | Atty. Doc | | | | | |
|--|--------------|--|--|-----------------------------------|-----------|---|--------------------------------|------------|----------------|-------------|
| INFORMATION DISCLOSURE STATEMENT B | | | | APPLICANT | | Applicants Frederick B. GROWCOCK et al. | | | | |
| | | MAY 0 3 200 | <u> </u> | | | Filing Dat | ry 3, 2004 Group Not known yet | | | |
| REFERENCE | DESIGNATIO | N SPATENT P | SUMENTS | | | | | | | |
| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | | CLASS | SUB- CLASS | 1 | LING DA | |
| PP | AA | 2,818,230 | 12/31/1957 | Davis | | 255 | 1.8 | 02 | /08/1954 | |
| | AB | 3,900,420 | 08/19/1975 | Sebba | | 252 | 307 | 09. | /14/1972 | |
| | AC | 4,155,410 | 05/22/1979 | Jackson, deceased et al. | | 175 | 66 | 06. | /26/1978 | |
| | AD | 4,486,333 | 12/04/1984 | Sebba | | 252 | 307 | 03. | /23/1982 | |
| | AE | 5,314,644 | 05/24/1994 | Michelsen et al. | | 261 | 84 | 10/19/1992 | | |
| | AF | 5,881,826 | 06/16/1999 | Brookey | | 175 | 72 | 02 | /13/1997 | |
| | AG | | | Brookey et al. | | 175 | 72 07/24/1 | | /24/1998 | |
| | АН | 6,148,917 | 11/21/2000 | Brookey et al. | • | 166 | 301 | 02 | /09/1999 | 11.15.00 |
| | AI | 6,156,708 | 12/05/2000 | Brookey et al. | | 507 | 102 | 02. | /09/1999 | |
| | AJ | 6,390,208 B1 | 05/21/2002 | Brookey | | 175 | 72 | 05. | /07/1999 | |
| OP | AK | 6,422,326 B1 | 07/23/2002 | Brookey et al. | | 175 | 72 | 06 | /09/2000 | _ |
| FOREIGN PAT | TENT DOCUM | IENTS | | <u> </u> | | | | | | |
| - | | DOCUMENT NUMBER | DATE | COUNTRY | CL | ASS | SUB- CLASS | | Transla YES | ation NO |
| PC | AL | WO 98/36151 | 51 08/20/1998 WIPO E21B 21/14 C09K 7/0 | | | C09K 7/0 | 0 | YES | | |
| OTHER ART (| | or, Title, Date, Per | | | **** | · · · · · · · · · · · · · · · · · · · | | | _ | |
| P | AM | International, M | arch 1995. | Improve High Angle Well Producti | | | | | | |
| ./ | AN | Article entitled: | "Foams and Bili | quid Foams – Aprhons," (Ch. 5, pp | . 63-78) | by Felix Seb | ba, John Wii | ley & | Sons, 19 | 87. |
| | AO | Article entitled: "Hidraulica Forajului," translation: YES, pp. 444-455, October 26, 1982. | | | | | | | | |
| | AP | Article entitled "Microbubbles: Generation and Interaction With Colloid Particles," J.B. Melville and E. Matijevic, Institute of Colloid and Surface Science and Department of Chemistry, Clarkson College of Technology, Potsdam, NY., pp. 217-235, 1975. | | | | | | | | |
| | AQ | Article entitled "Separation of Organic Dyes From Wastewater by Using Colloidal Gas Aphrons," D. Roy, K.T. Valsarlj, and S.A. Kottai, Marcel Dekker, Inc., Separation Science and Technology, 27(5), pp. 573-589, 1992. | | | | | | | | |
| | AR | SPE 39589 entitled "Microbubbles: New Aphron Drill-in Fluid Technique Reduces Formation Damage in Horizontal Wells," Tom Brookey, SPE, ActiSystems, Inc., Society of Petroleum Engineers, February 18-19, 1998. | | | | | | | | |
| bT | AS | Article entitled "Treatability of Water-based Drilling Fluids Using Colloidal Gas Aphrons," D. Roy, K.T. Valsaraj, and V.J. Amedee, Department of Civil Engineering and Chemical Engineering, Louisiana State University, Fluid/Particle Separation Journal, Vol. 5, No. 1, pp. 31-36, March 1992. | | | | | | | | |
| EXAMINER | P | TUCKER | | DATE CONSIDERED 6/09 | <u> </u> | | | | | |
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